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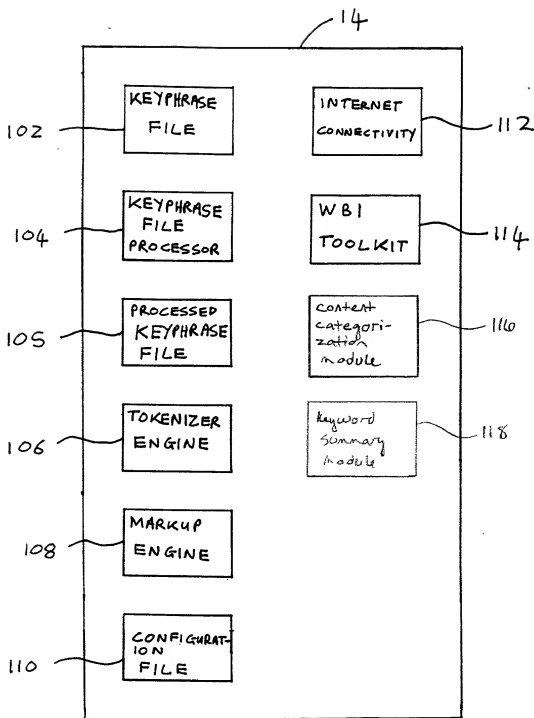


FIG. 3

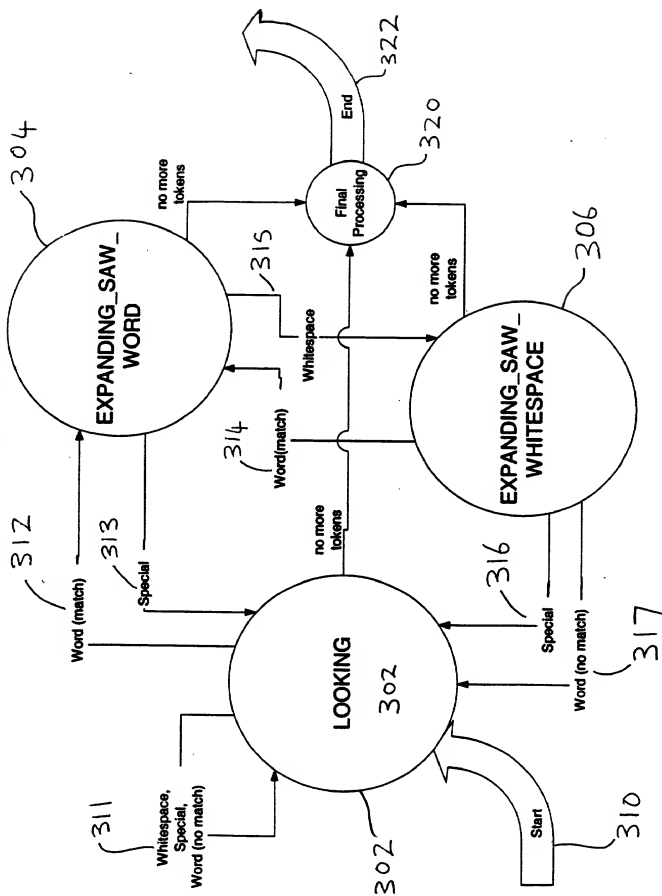


FIGURE 4

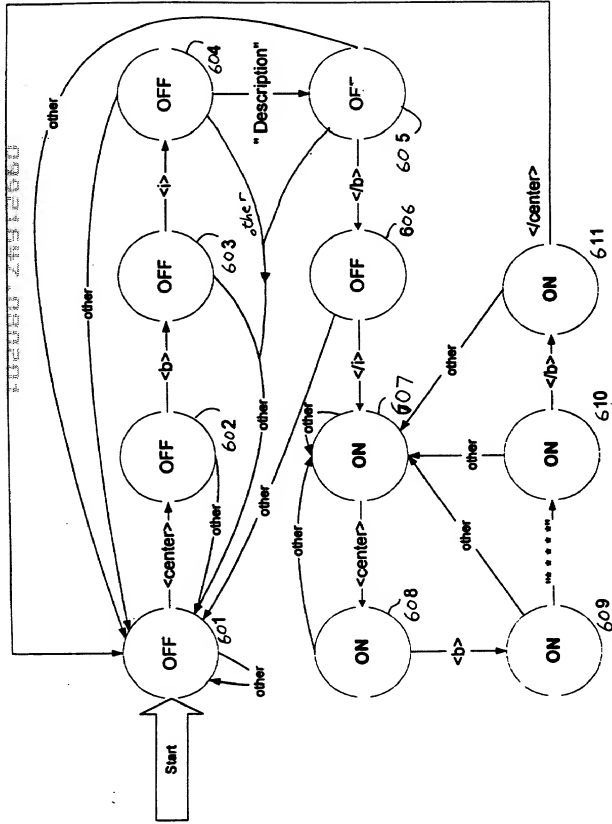


FIG. 7

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Title: **Chemokines and glycoprotein 120 produce pain hypersensitivity by directly exciting primary nociceptive neurons.**

Abstract: 11:1 Neurosci 2001 Jul 18;21(14):5027-35 Related records: 10. Abstract: Chemokines and glycoprotein 120 produce pain hypersensitivity by directly exciting primary nociceptive neurons. Oh SB, Tran PB, Gillard SE, Huley RW, Hammond DL, Miller RJ. Department of Neurobiology, Pharmacology, and Physiology, University of Illinois at Chicago, Chicago, Illinois 60637. Human Care and The Committee on Neurobiology, University of Chicago, Chicago, Illinois 60637. Human

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primary nociceptive

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n, including pain and a wide variety of

tem 120 (gp 120)

DRG cells. Many neurons demonstrated the

ed substance P and the

5 mRNAs in DRG

neurons. Chemokines and gp120 produced excitatory effects on DRG neurons and also stimulated the release of substance P.

Chemokines and gp120 also produced allodynia after injection into the rat paw. Thus these results provide evidence that chemokines and gp120 may produce painful effects via direct actions on chemokine receptors expressed by nociceptive neurons. Chemokine receptor antagonists may be important therapeutic interventions in the pain that is associated with HIV-1 infection and inflammation

PMID: 11438578 [PubMed - in process]

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Fig. 8

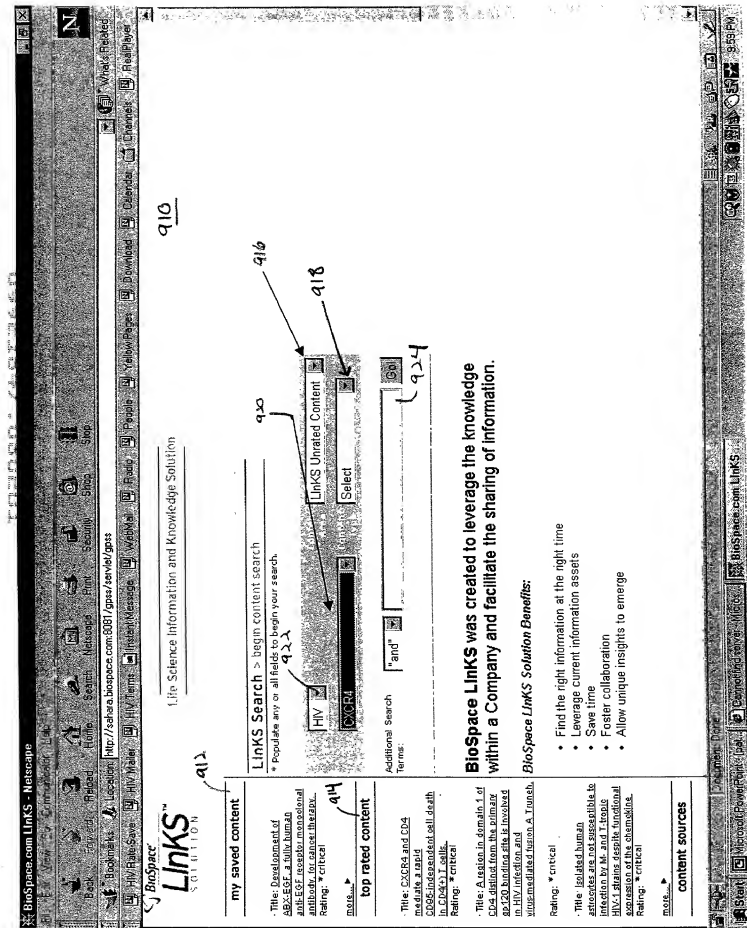


Fig. 9

Basic Science

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ence pain hypersensitivity by directly exciting primary nociceptive

Donald D.L. Miller R.J.

Physiology, and Department of Anesthesia and Critical Care and The Committee on
 60637.

is associated with numerous effects on the nervous system, including pain and cultured rat dorsal root ganglion (DRG) neurons express a wide variety of ligands that act as receptors for the HIV-1 coat protein glycoprotein 120 (gp 120). Many neurons express receptors increased $[Ca^{2+}]_i$ in subsets of cultured DRG cells. Many neurons express receptors for γ -aminobutyric acid (GABA), α -melanocyte stimulating hormone (ACTH), β -endorphin, and capsaicin. Immunohistochemical studies demonstrated the expression of DRG neurons that also expressed substance P and the expression of CXCR4, CX3CR1, CXCR3, and CXCR5 mRNAs in DRG neurons. These results also demonstrated that the release of substance P from DRG neurons into the rat paw. Thus these results provide evidence that chemokines act on chemokine receptors expressed by nociceptive neurons. Chemokine receptors on chemokine receptors expressed by HIV-1 infection and inflammation interventions in the pain that is associated with HIV-1 infection and inflammation.

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